



FOREST BIOMASS BUSINESS CENTER

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PROJECT GOALS

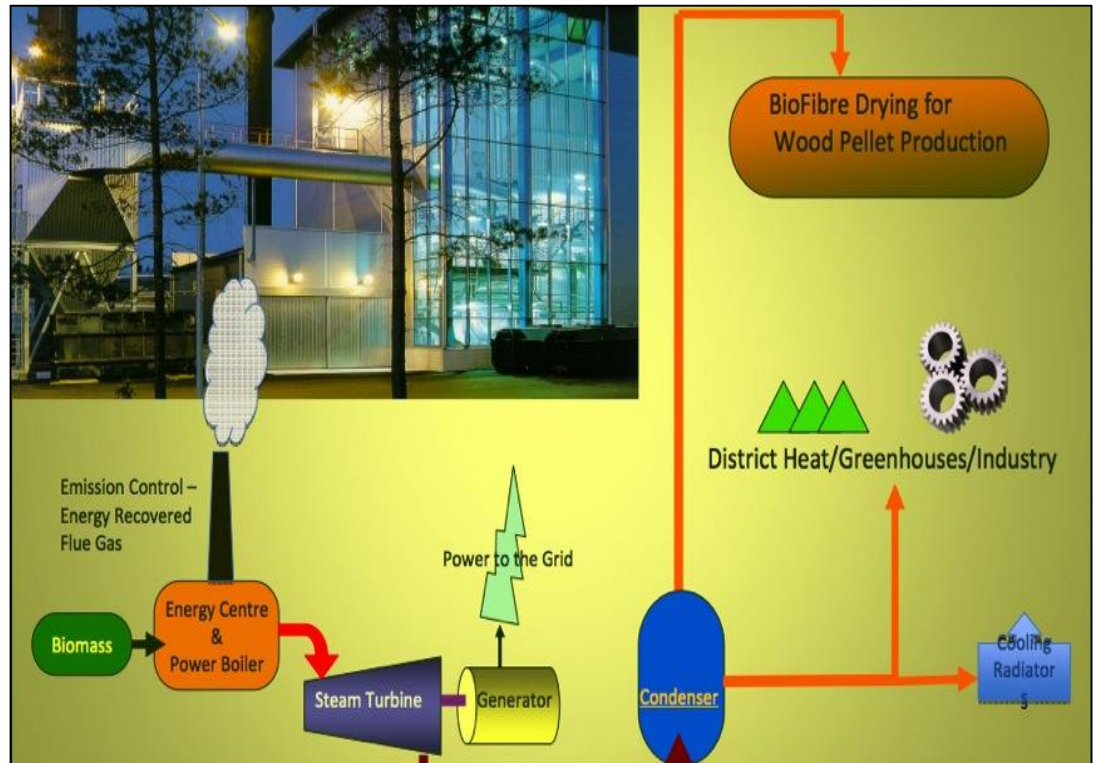
- **Build viable model for biomass utilization**
- **Create sustainable local employment**
- **Promote a fire safe community**
- **Improve regional air quality**
- **Enhance forest and watershed health**
- **Produce renewable energy**
- **Revitalize the Celestial Valley mill site**

PROJECT LOCATION



PROJECT CONCEPT

- Small scale (2.7-3 MW)
- Combined heat & power (CHP)
- Direct combustion boiler steam turbine technology
- Aim to use 100% forest biomass from a mix of suppliers



From "Combined Heat and Power and Pellets", John Swaan, Magnolia BioEnergy

WHO WILL USE THE ELECTRICITY AND HEAT PRODUCED?

- Power Purchase Agreement with PG&E
- Co-located business(es):
 - Seasoned firewood
 - Heat-treated pallets
 - Wood pellets
 - Pet bedding
 - Poles
 - Greenhouse
 - Brewery



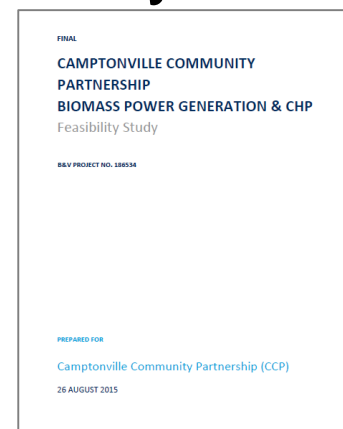
PROJECT HISTORY

- 2010: Yuba Foothills Biomass Feasibility Study
- 2010: CCP and the Yuba Watershed Protection and Fire Safe Council
- 2013-14: National Forest Foundation Grant
 - Outreach and capacity building
 - Formation of Steering Committee
 - Economic Development Plan



PROJECT HISTORY CONT'D

- 2014-2015: Sierra Nevada Conservancy Grant
 - Site specific feasibility study
 - Outreach and education
- 2014-2015: Pacific CHP Technical Assistance Partnerships
 - Evaluation of potential co-located businesses
 - Third party review of feasibility study



CURRENT PROJECT WORK

- 2014-2016: Sierra Institute's Rural Community Development Initiative Grant
 - Technical assistance
- 2015-2017: USFS Wood Innovations Grant
 - Site plan
 - Conditional Use Permit/CEQA
 - System Impact Study
- 2015-2016: Yuba County Water Agency
 - Ownership model and project developer selection pre-work
 - Capacity building





NEXT STEPS

- NFF Community Capacity Land Stewardship grant
 - Regional outreach and education
 - Community-based process to select ownership model and project developer
 - Build regional capacity for co-located businesses
- Prepare to enter the BioMat queue for feed-in tariff auction
 - Site control
 - SIS
 - Project developer
- Consider an EPIC grant application
- Explore USDA financing
- Secure co-located businesses
- Complete preliminary engineering
- Power purchase agreement

SCHEDULE (ha, ha)



- Now- Nov 2016. Site plan, permitting, SIS
- Now-Nov 2016. Establish ownership model/entity
- Now-? Explore USDA funding
- April-May 2016. EPIC grant application
- May 2016-Jan 2017. Select project developer
- June 2016-Oct 2017. Build capacity for and secure co-located businesses
- Nov 2016-Jan 2017. Permits (air, water, building)
- Jan-March 2017. FiT auction/PPA
- Aug 2017. Finalize fuel contracts
- Jan 2018-Dec 2018. Facility construction

PROJECT PARTNERS & SUPPPORTERS

- Yuba County Watershed Protection and Fire Safe Council
- University of California Cooperative Extension
- USFS Tahoe NF & Plumas NF
- Sierra Nevada Conservancy
- National Forest Foundation
- Center for Sustainable Energy
- Sierra Institute for Community & Environment
- Statewide Wood Energy Team (SWET)
- Biomass Working Group (BWG)
- UC Davis - California Biomass Collaborative
- Camptonville Community
- Camptonville School
- Camptonville Community Services District
- Yuba County BOS
- Yuba-Sutter Economic Development Corporation
- Yuba County Water Agency
- Nevada County Biomass Task Force
- Fire Safe Council of Nevada County
- Private timber industry
- Bear-Yuba Land Trust
- South Yuba River Citizens League
- Senator Jim Nielsen

THANK YOU



<http://sites.theccp.org/fbbc/>

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